

Appl. No. 09/910,604  
Amtd. Dated February 10, 2006  
Reply to Office Action of August 10, 2005

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A solid-state image apparatus comprising:
  - an image section having a plurality of pixels arranged two dimensionally in the horizontal direction and in the vertical direction,
    - the image section comprising a first area formed of a first pixel group and a second area formed of a second pixel group, and the first area and the second area being disposed adjacent to each other in the horizontal direction;
    - a first electric-charge transfer section disposed outside the image area for transferring the signal electric charges of the first area in the horizontal direction;
    - a second electric-charge transfer section extending across the entire width of the image section and disposed outside the image area for transferring the signal electric charges of the second area in the horizontal direction; and
    - driving means for driving the first and second electric-charge transfer sections in an identical direction,
  - wherein the first and second electric-charge transfer sections are disposed such that the first electric-charge transfer section transfers only the signal electric charges of the first area and the second electric-charge transfer section transfers only the signal electric charges of the second area; and

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further comprising a vertical transfer section for transferring the signal electric charges of the second area to the second electric-charge transfer section without passing through the first electric-charge transfer section,

wherein the first electric-charge transfer section is disposed between the first area and the second electric-charge transfer section, and

wherein the vertical transfer section is disposed between the second area and the second electric-charge transfer section.

2. (Original) A solid-state image apparatus according to Claim 1, wherein the driving means drives the first and second electric-charge transfer sections by an identical driving signal.

3. (Cancelled).

4. (Cancelled)

5. (Previously Presented) A solid-state image device comprising:  
an image section having a plurality of pixels arranged two dimensionally in the horizontal direction and in the vertical direction,

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the image section comprising a first area formed of a first pixel group and a second area formed of a second pixel group, and the first area and the second area being disposed adjacent to each other in the horizontal direction;

a first electric-charge transfer section disposed outside the image area for transferring the signal electric charges of the first area in the horizontal direction;

a second electric-charge transfer section extending across the entire width of the image section and disposed outside the image area for transferring the signal electric charges of the second area in the horizontal direction; and

a vertical transfer section for transferring the signal electric charges of the second area to the second electric-charge transfer section,

wherein the first electric-charge transfer section is disposed between the first area and the second electric-charge transfer section, and

the vertical transfer section is disposed between the second area and the second electric-charge transfer section.

6. (Currently Amended) A driving method for a solid-state image device, the solid-state image device having: an image section having a plurality of pixels arranged two dimensionally in the horizontal direction and in the vertical direction, the image section having a first area formed of a first pixel group and a second area formed of a second pixel group, and the first area and the second area being disposed adjacent to each other in the horizontal direction; a first electric-charge transfer section disposed outside the image area

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for transferring the signal electric charges of the first area in the horizontal direction; and a second electric-charge transfer section extending across the entire width of the image section and disposed outside the image area for transferring the signal electric charges of the second area in the horizontal direction, the driving method comprising:

a step of transferring the signal electric charges of the first area to the first electric-charge transfer section;

a step of transferring the signal electric charges of the second area to the second electric-charge transfer section without passing through the first electric-charge transfer section; and

a step of driving the first and second electric-charge transfer sections in an identical direction to output signal charges; and

further comprising transferring the signal electric charges of the second area to the second electric-charge transfer section without passing through the first electric-charge transfer section via a vertical transfer section thereby transferring the signal electric charges of the second area to the second electric-charge transfer section without passing through the first electric-charge transfer section,

wherein the first electric-charge transfer section is disposed between the first area and the second electric-charge transfer section, and

wherein the vertical transfer section is disposed between the second area and the second electric-charge transfer section.

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7. (Previously Presented) A camera system comprising:
  - a solid-state image apparatus,
    - the solid-state image apparatus comprising:
      - an image section comprising a plurality of pixels arranged two dimensionally in the horizontal direction and in the vertical direction, the image section comprising a first area formed of a first pixel group and a second area formed of a second pixel group, and the first area and the second area being disposed adjacent to each other in the horizontal direction;
      - a first electric-charge transfer section disposed outside the image area for transferring the signal electric charges of the first area in the horizontal direction;
      - a second electric-charge transfer section extending across the entire width of the image section and disposed outside the image area for transferring the signal electric charges of the second area in the horizontal direction;
    - driving means for driving the first and second electric-charge transfer sections in an identical direction; and
    - a vertical transfer section for transferring the signal electric charges of the second area to the second electric-charge transfer section;
    - an optical system for guiding incident light to the image section of the solid-state image apparatus; and
    - a signal processing circuit for combining output signals of the solid-state image apparatus to generate a signal corresponding to signal electric charges of one line in the image section,

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wherein the first electric-charge transfer section is disposed between the first area and the second electric-charge transfer section, and

the vertical transfer section is disposed between the second area and the second electric-charge transfer section.

8. (Cancelled).